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(71) Applicant: EXACT LABORATORIES, INC. [US/US]; 63 Great Road, Maynard, MA 01754 (US). (88) Date of publication of the international search report: 30 August 2001

(72) Inventors: SHUBER, Anthony, P.; 11 Grant Street, Milford, MA 01757 (US). PIERCEALL, William; 17 Abbott Street, Wellesley, MA 02482 (US). *For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

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(54) Title: METHODS FOR DETECTING MUTATIONS USING PRIMER EXTENSION

(57) Abstract: Methods for detecting nucleotide deletions in biological samples are described. Methods of the invention are particularly useful for detecting deletions in regions of polynucleotide repeats. In particular, methods of the invention are useful to detect deletions at the BAT26 locus.

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/US 00/21763

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, MEDLINE, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ANDREAS BRAUN ET AL: "Improved Analysis of Microsaellites Using Mass spectrometry" GENOMICS, vol. 46, 1997, pages 18-23, XP002162453 page 19, left-hand column, line 59 -page 19, right-hand column, line 3; figure 2	1-12, 22-30
Y	US 5 741 650 A (LAPIDUS STANLEY N ET AL) 21 April 1998 (1998-04-21) cited in the application claims 1-5	13-21
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
12 March 2001	02/04/2001
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gabriels, J

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Int'l. Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	GISMONDI VIVIANA ET AL: "Characterization of 19 novel and six recurring APC mutations in Italian adenomatous polyposis patients, using two different mutation detection techniques." HUMAN MUTATION, vol. 9, no. 4, 1997, pages 370-373, XP002162567 ISSN: 1059-7794 table 2 ---	19
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